

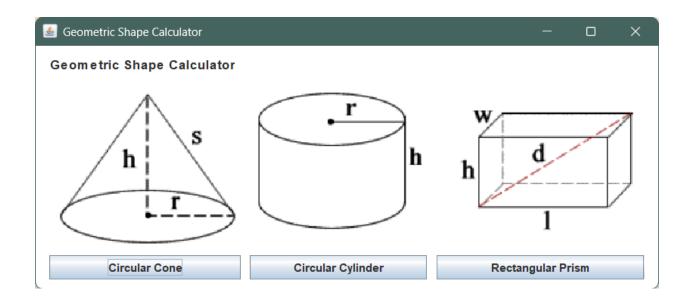
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## Lab #10

ฝึกการใช้ GUI และ JAR

# Question #1

- 1. จาก Java Project ชื่อว่า *GeometricShapeCalculator* ในเนื้อหาช่วงบรรยาย ให้นิสิต พัฒนาส่วนที่เหลือให้ครบสมบูรณ์
- 2. สร้าง GUI Form ในรูปทรงส่วนที่เหลือให้ครบถ้วน ได้แก่ Circular Cylinder และ Rectangular Prism โดยในส่วนของ Sub Form ทั้ง 2 นั้นให้ออกแบบได้ตามสะดวก





### คำตอบ #1

## **Source Code**

```
Project Files ∨

© GeometricShapes D:\6621601174\70

Di GeometricShapes D:\662160117
```

```
Project Files ~
                 © CircularCone.java × © CircularCylinder.java
                                                                                                       © RectangularPrism.java
✓ ☐ GeometricShapes D:\6621601174\70
  > 🗀 .idea
                                         public class CircularCone implements GeometricShapes {  no usages
                                             public CircularCone(double r, double h) { no usages
    ⊘ .gitignore
    ■ GeometricShapes.iml
                                                 double t = getLateralSurfaceArea() + getBaseSurfaceArea();
                                                 double ! = Math.PI * radius * Math.sqrt((radius * radius) + (height * height));
                                             public double getBaseSurfaceArea() { 1 usage
```







```
Project Files ~
                                © CircularConeForm.java

∨ □ GeometricShapeCalculator D:\662160

 > 🗀 .idea
                                          import java.awt.event.ActionListener;

∨ □ src

✓ i resources

       private JPanel mainPanel; 2 usages
       circularcylinder2.png
        rectangularprism.png
       > 🗖 CircularConeForm
    > 

MainForm
                                             private JButton rectangularPrismButton; 2 usages
    > 🗏 RectangularPrismForm
   Ø .gitignore
                                             public static final String CIRCULARCONE = "CIRCULARCONE"; 3 usages
   ■ GeometricShapeCalculator.iml
                                             public static final String CIRCULARCYLINDER = "CIRCULARCYLINDER"; 3 usages
                                             public static final String RECTANGULARPRISM = "RECTANGULARPRISM"; 3 usages
                                                circularConeLabel.addMouseListener(new MouseAdapter() {
                                                    public void mouseClicked(MouseEvent e) {
                                                       openForm(MainForm.CIRCULARCONE);
                                                    public void actionPerformed(ActionEvent e) {
```



```
Project Files ~
                                    public class MainForm extends JFrame {
✓ ☐ GeometricShapeCalculator D:\662160
 ∨ 🗀 src

∨ i resources

        circularcone.png

    rectangularprism.png

        rectangularprism2.png
    > 🗖 CircularConeForm
    > 🗖 CircularCylinderForm
    > 

MainForm
    > 🗖 RectangularPrismForm
                                                      rectangularPrismLabel.addMouseListener(new MouseAdapter() {
   ⊘ .gitignore
    \ensuremath{\blacksquare} \ensuremath{ \mbox{GeometricShapeCalculator.iml} }
                                                              openForm(MainForm.RECTANGULARPRISM);
                                                          public void actionPerformed(ActionEvent e) {
                                                  private void openForm(String formName) { 6 usages
                                                      switch (formName) {
                                                             circularConeForm.show();
                                                          case MainForm.CIRCULARCYLINDER:
                                                              CircularCylinderForm circularCylinderForm = new CircularCylinderForm();
```







```
Project Files - Mainform java Mainform ConcularConform and CircularConform Conform Conformation ConcularCylinderform Conformation ConcularCylinderform Conformation ConcularCylinderform Conformation ConcularCylinderform Conformation Conform
```





# ผลการทำงาน

